The SCD100 is a line voltage portable desoldering tool designed for field service technicians. The tool has a throw away solder collection chamber, which will last between 300 and 500 desoldering operations. The tip provided is iron plated for long tip life. The tool will reach a usable operating temperature in less than four minutes and maximum tip temperature will be approximately 800°F(427°C). The SCD100 is provided with a 3-wire power cord. The heater and tip are grounded to earth.

DESOLDERING INSTRUCTIONS

1. Plug tool into appropriate power receptacle, power on tool with switch (Item 1) on rear of tool, allow 4 minutes for tool to reach usable operating temperature.
2. Align tip over PC board lead to be desoldered, position tip flush with PC board pad and wait for solder on PC board to melt (usually 2 – 3 seconds).
3. Press tip lightly on pad and rotate tip to move the component lead, which is inside the tip. While rotating the tip press pump trigger (Item 2) and hold, after 1 second remove the tip from the PC board then release the pump trigger. Care should be taken to keep the tip face flush with the PC board pad during the desoldering operation so that all the solder can be removed from the PC board hole.

   CAUTION: If using 230 VAC models, do not run the pump for longer then six (6) seconds. The pump duty cycle should not exceed 30%. Possible damage to pump circuit may occur if these values are exceeded.
4. The tip should be cleaned out with the tip clean-out tool after every 20 to 30 desoldering operations. While the tool is hot, push the clean-out tool all the way into the tip, this should be repeated 2 or 3 times.

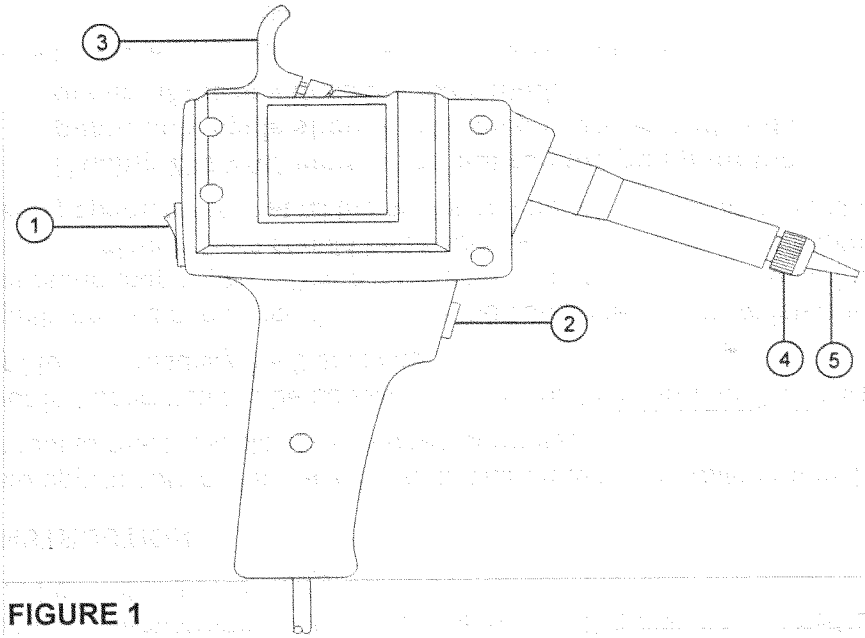

FIGURE 1

SOLDER COLLECTION CHAMBER REPLACEMENT

The solder collection chamber should be replaced after approximately 300 operations or when solder is not being removed from the PC board. Remove collection tube while the tool is at operating temperature.

1. Push the collection chamber holder (Item 3) towards the tip and swivel the back end up to clear the retaining notch in the holder.
2. Place thumb on rear of tool (see Figure 2) and hook index finger around the holder. Push against the rear of the tool while pulling on holder with index finger. The holder should release from the tool. Re move the holder and collection chamber, twist the holder back and forth while removing.
3. Place the holder with the collection chamber attached aside to cool (about 3 – 4 minutes).
4. Remove the collection chamber from the holder and discard. **NOTE: Electronic solders contain high percentages of lead and need to be disposed or recycled in accordance with local environmental regulations.**
5. Position replacement collection chamber so that open end is towards holder, push and rotate collection chamber (see Figure 3) onto holder. Chamber should slide over two o-ring seals and stop on holder shoulder. '
6. Insert chamber into collection chamber opening. Press holder into opening until holder bottoms out on pump housing, engage notch in holder on tool housing.

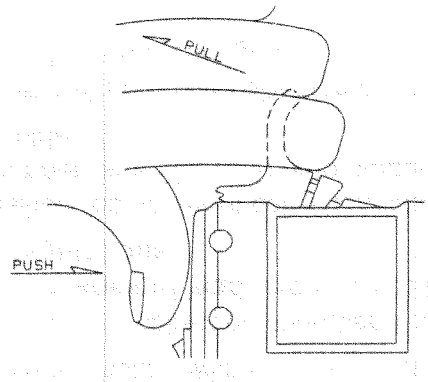

FIGURE 2

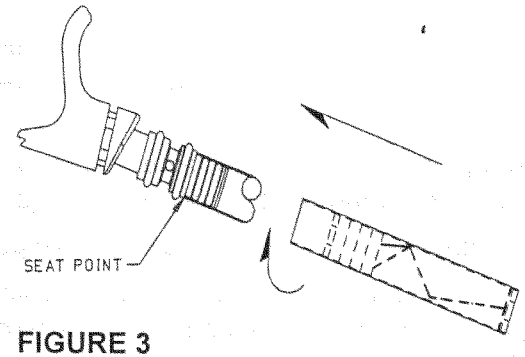

FIGURE 3

TIP REPLACEMENT

The tip should be replaced while the tool is at operating temperature and with collection chamber in place.

1. Loosen and remove tip nut (Item 4).
2. Remove tip (Item 5) from heater with caution, tip will be hot.
3. Insert new tip into heater, tip will slide freely into heater until it encounters collection chamber seal (about 1/8" will remain between tip shoulder and tip seat).
4. Rotate tip and push to seat tip onto heater. This will engage solder delivery tube with collection chamber.
5. Replace the tip nut and tighten.

TIP CLEANING

Should the tip become clogged during use it should be cleaned out with the clean-out tool provided. With the tool at operating temperature, push the clean-out tool into the tip until only ¾" of tool remains outside of tip. This should clear out built up flux deposits, several passes of the clean-out tool may be required.

REPLACEMENT PARTS

SCD201	Collection Chamber
SCD112	Tip .031" ID
SCD113	Tip .046" ID
SCD114	Tip .073" ID

MODELS AVAILABLE

SCD100	120V, 60Hz, 35W (USA)
SCD100DE	230V, 50/60Hz, 65W (Europe)
SCD100DU	230V, 50/60Hz, 65W (UK)
SCD100J	100V, 50/60Hz, 30W (Japan)

REPAIR PARTS

SCD103	Diaphragm and valve set
SCD104	Ball bearing and eccentric set

ACCESSORIES

SCD202	Hot Tip Protector